



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

POTOMAC RADIO GROUP, INC.  
2890 EMMA LEE STREET  
SUITE 201  
FALLS CHURCH VA 22042

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 54876

Call Sign: WTSD

License File Number: BMML-20180411AAY

Grant Date: July 10, 2018

This license expires 3:00 a.m.  
local time, October 01, 2019.

License to cover construction permit BP-20161130AAH (night) and updated  
daytime operating parameters.

Subject to the provisions of the Communications Act of 1934, subsequent  
acts and treaties, and all regulations heretofore or hereafter made by  
this Commission, and further subject to the conditions set forth in this  
license, the licensee is hereby authorized to use and operate the radio  
transmitting apparatus herein described.

This license is issued on the licensee's representation that the  
statements contained in licensee's application are true and that the  
undertakings therein contained so far as they are consistent herewith,  
will be carried out in good faith. The licensee shall, during the term of  
this license, render such broadcasting service as will serve the public  
interest, convenience, or necessity to the full extent of the privileges  
herein conferred.

This license shall not vest in the licensee any right to operate the  
station nor any right in the use of the frequency designated in the  
license beyond the term hereof, nor in any other manner than authorized  
herein. Neither the license nor the right granted hereunder shall be  
assigned or otherwise transferred in violation of the Communications Act  
of 1934. This license is subject to the right of use or control by the  
Government of the United States conferred by Section 606 of the  
Communications Act of 1934.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:  
Local Standard Time (Non-Advanced)

Jan.	7:30 AM	5:15 PM	Jul.	5:00 AM	7:30 PM
Feb.	7:00 AM	5:45 PM	Aug.	5:15 AM	7:00 PM
Mar.	6:30 AM	6:15 PM	Sep.	5:45 AM	6:15 PM
Apr.	5:30 AM	6:45 PM	Oct.	6:15 AM	5:30 PM
May	5:00 AM	7:15 PM	Nov.	6:45 AM	5:00 PM
Jun.	4:45 AM	7:30 PM	Dec.	7:15 AM	4:45 PM

Name of Licensee: POTOMAC RADIO GROUP, INC.

Station Location: LEESBURG, VA

Frequency (kHz): 1190

Station Class: B

Antenna Coordinates:

Day

Latitude: N 39 Deg 02 Min 28 Sec

Longitude: W 77 Deg 26 Min 42 Sec

Night

Latitude: N 39 Deg 02 Min 28 Sec

Longitude: W 77 Deg 26 Min 42 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 50.0 Night: 1.2

Antenna Input Power (kW): Day: 52.65 Night: 1.3

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 34.44 Night: 5.37

Resistance (ohms): Day: 44.4 Night: 44.9

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1255859	
2	1255860	
3	1255861	

Night:

Tower No.	ASRN	Overall Height (m)
1	1255859	
2	1255860	
3	1255861	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2224 Night: 359.68

Standard RMS (mV/m/km): Day: 2336 Night: 377.94

Augmented RMS (mV/m/km):

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.5440	-88.700	96.5000	130.100	0	82.7
2	1.0000	0.000	0.0000	0.000	0	82.7
3	0.3430	159.000	89.9000	335.100	0	82.7

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.5430	-153.900	96.5000	130.100	0	82.7
2	1.0000	0.000	0.0000	0.000	0	82.7
3	0.8280	140.800	89.9000	335.100	0	82.7

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-82.7	0.49
2	0	1
3	154.1	0.322

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-157.8	0.518
2	0	1
3	140	0.893

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
  
- 2 Ground system consists of 120 equally spaced (every 3 degree) #10 AWG soft-drawn, buried, copper radials about the base of each tower, each being 90 degree (63 meters) in length except where terminated in common 4" transverse copper straps. An additional set of 120 copper radials, each 15.2 meters long are installed between the longer radials. A 4" wide copper strap is installed between each tower, Extruded copper mesh screens are placed atop each tower base foundation and each tuning unit support and are then tied into the ground system by a series of 4" wide copper straps. Additional copper straps connect the tower base ground point to 7 grounding rods.

\*\*\* END OF AUTHORIZATION \*\*\*